

STEGANOGRAPHY SYSTEM WITH SCALE/ROTATION DETECTION**Abstract of the Disclosure**

5 An excerpt of an image is analyzed for a steganographic spectral signature. Any rotation of
the image from its original orientation is manifested as an up-shifting of the signature's frequency. Rotation of
the image to minimize the frequency of the spectral signature restores the image to its original orientation.
Image scaling, too, is manifested as a change in the spectral signature, and can be compensated for by rescaling
the image (after rotation correction) so the spectral signature matches its original characteristic. By such
techniques, automatic detection of steganographic data can be achieved notwithstanding scaling and/or rotation
10 of the encoded data set. Such capability can be used, e.g., in photo-duplication kiosks to detect
steganographically-embedded copyright notices in original photographs, and prevent their unauthorized copying.